Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-02-13-04** **Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer Reference	:	BBMP/EE/YNK D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	241	241	4.8	95.2	90-100
3	10 mm	2562	2803	56.1	43.9	25-55
4	4.75 mm	2035	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-02-13-04** **Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	53	74	7.4	92.6	60-95	75-100	85-100	95-100
4	1.18 mm	225	299	29.9	70.1	30-70	55-90	75-100	90-100
5	600 micron	201	500	50.0	50.0	15-34	35-59	60-79	80-100
6	300 micron	212	712	71.2	28.8	5-20	8-30	12-40	15-50
7	150 micron	205	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-02-13-04** **Date: 04-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-02-13-04** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5433	5678	37.9	62.1	30-70
4	10 mm	4331	10009	66.7	33.3	10-35
5	4.75 mm	4657	14666	97.8	2.2	0-5
6	Pan	334	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-02-13-04** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	-
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-13-04** **Date: 19/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	149.93 X 150.35 X 151.34	22542	9.027	585.6	26.0	25.7
2	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	150.26 X 150.61 X 151.42	22631	8.211	600.7	26.5	
3	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	149.56 X 151.05 X 150.00	22591	8.564	552.9	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2023

Lab ID	:	CP-2023-02-13-04
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	151.99 X 151.87 X 149.26	23083	8.414	784.4	34.0	33.5
2	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	150.39 X 149.27 X 150.18	22448	8.733	735.5	32.8	
3	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	151.70 X 149.19 X 149.38	22633	8.594	762.1	33.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-13-04** **Date: 19/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	150.58 X 149.97 X 150.43	22583	8.345	569.4	25.2	25.1
2	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	149.55 X 150.86 X 151.13	22561	8.908	586.8	26.0	
3	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	150.92 X 151.16 X 150.53	22812	8.934	548.4	24.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2023

Lab ID	:	CP-2023-02-13-04
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	151.33 X 151.40 X 149.27	22913	8.944	768.8	33.6	33.1
2	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	151.97 X 150.48 X 151.59	22868	8.699	732.6	32.0	
3	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	150.97 X 150.34 X 151.48	22697	8.810	763.2	33.6	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-13-04** **Date: 23/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	151.47 X 150.43 X 150.25	22786	8.113	576.2	25.3	25.5
2	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	149.63 X 151.05 X 150.67	22602	8.146	608.6	26.9	
3	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	151.73 X 149.63 X 149.64	22704	8.870	548.9	24.2	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-02-13-04** **Date: 23/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 22/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	150.42 X 150.37 X 149.17	22618	8.827	599.3	26.5	25.4
2	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	149.94 X 150.77 X 149.57	22606	8.501	558.5	24.7	
3	Cement Concrete Pavement	M30	15/01/2023	22/01/2023	150.40 X 150.61 X 151.46	22651	8.604	565.9	25.0	

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Samples will be disposed after 30 days from the date of issue of test certificate

A.E.E

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-02-13-04 Date: 13/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.

Agency : Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-01-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	15/01/2023	12/02/2023	150.21 X 149.42 X 150.97	22444	8.277	741.7	33.0	33.1
2	Cement Concrete Pavement	M30	15/01/2023	12/02/2023	149.71 X 150.03 X 150.65	22461	8.114	737.4	32.8	
3	Cement Concrete Pavement	M30	15/01/2023	12/02/2023	151.79 X 151.60 X 151.19	23013	9.039	766.1	33.3	

• The results obtained are satisfactory as per standard requirements.

Note:
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yekahanka Sub division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
16	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 set /100-150 cum	103.05	10	10

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/01/2023

Lab ID	:	CP-2023-02-13-04
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	19/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	150.76 X 151.37 X 150.74	22820	8.882	584.9	25.6	25.4
2	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	151.03 X 150.44 X 149.18	22721	8.126	602.7	26.5	
3	Cement Concrete Pavement	M30	12/01/2023	19/01/2023	150.55 X 151.03 X 151.43	22737	8.907	548.9	24.1	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2023

Lab ID	:	CP-2023-02-13-04
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Flagging concrete at Govt. Hospital premises in Kempegowda ward no-01 of Yelahanka Sub division.
Agency	:	Sri NAVEEN K, No: 41/C, 14th Cross, Mahalakshmi layout, Bangalore-560086
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/39/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	151.86 X 149.25 X 149.22	22665	8.890	752.5	33.2	33.0
2	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	150.56 X 149.50 X 149.33	22508	9.026	734.2	32.6	
3	Cement Concrete Pavement	M30	12/01/2023	09/02/2023	149.01 X 149.32 X 151.34	22250	8.881	739.5	33.2	

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		Density	One Test		1	1
		Standard Consistency	One Test		1	1
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2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
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		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
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		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
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		Material finer than 75 micron	One Test		1	1
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